

Helmut Ehrenberg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

518
papers

13,346
citations

54
h-index

90
g-index

622
ext. papers

15,257
ext. citations

5.4
avg, IF

6.48
L-index

#	Paper	IF	Citations
518	Understanding efficient phosphorus-functionalization of graphite for vanadium flow batteries. <i>Electrochimica Acta</i> , 2022 , 409, 139971	6.7	1
517	Development of a Parallel Product-Production Co-design for an Agile Battery Cell Production System. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 96-104	0.4	2
516	Methods Spatially Resolved Diffraction Study of the Uniformity of a Li-Ion Pouch Cell. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 030518	3.9	1
515	Probing thermally-induced structural evolution during the synthesis of layered Li-, Na-, or K-containing 3d transition-metal oxides. <i>EScience</i> , 2022 ,		7
514	The first lithiation/delithiation mechanism of MFeOPO ₄ (M: Co, Ni) as revealed by ⁵⁷ Fe Mössbauer spectroscopy. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164373	5.7	1
513	Structure-activity correlation of thermally activated graphite electrodes for vanadium flow batteries.. <i>RSC Advances</i> , 2022 , 12, 14119-14126	3.7	1
512	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation.. <i>Nature Communications</i> , 2022 , 13, 2261	17.4	3
511	Multiscale investigation of discharge rate dependence of capacity fade for lithium-ion battery. <i>Journal of Power Sources</i> , 2022 , 536, 231516	8.9	2
510	Durable fast-charging lithium metal batteries designed with cross-linked polymer electrolytes and niobate-coated cathode. <i>Journal of Power Sources</i> , 2022 , 538, 231528	8.9	1
509	Study on Na ₂ V _{0.67} Mn _{0.33} Ti(PO ₄) ₃ electrodes with ultralow voltage hysteresis for high performance sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2022 , 444, 136608	14.7	3
508	Unraveling a cathode/anode compatible electrolyte for high-performance aqueous rechargeable zinc batteries. <i>Energy Storage Materials</i> , 2022 , 50, 464-472	19.4	0
507	Enhancement of ionic conductivity in novel LiON-ALOX multilayer heterostructures prepared by atomic layer deposition. <i>Solid State Ionics</i> , 2021 , 373, 115796	3.3	
506	Peroxo Species Formed in the Bulk of Silicate Cathodes. <i>Angewandte Chemie</i> , 2021 , 133, 10144-10151	3.6	0
505	Peroxo Species Formed in the Bulk of Silicate Cathodes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10056-10063	16.4	4
504	Investigation of capacity fade for 18650-type lithium-ion batteries cycled in different state of charge (SoC) ranges. <i>Journal of Power Sources</i> , 2021 , 489, 229422	8.9	13
503	Polyoxometalate Modified Separator for Performance Enhancement of Magnesium Sulfur Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100868	15.6	10
502	Innentitelbild: Peroxo Species Formed in the Bulk of Silicate Cathodes (Angew. Chem. 18/2021). <i>Angewandte Chemie</i> , 2021 , 133, 9814-9814	3.6	

501	Direct Observation of Reductive Coupling Mechanism between Oxygen and Iron/Nickel in Cobalt-Free Li-Rich Cathode Material: An in Operando X-Ray Absorption Spectroscopy Study. <i>Advanced Energy Materials</i> , 2021 , 11, 2100479	21.8	6
500	Dielectric Relaxation and Magnetic Structure of A-Site-Ordered Perovskite Oxide Semiconductor CaCuFeTaO. <i>Inorganic Chemistry</i> , 2021 , 60, 6999-7007	5.1	0
499	Li+/Na+ Ion Exchange in Layered Na _{2/3} (Ni _{0.25} Mn _{0.75})O ₂ : A Simple and Fast Way to Synthesize O ₃ /O ₂ -Type Layered Oxides. <i>Chemistry of Materials</i> , 2021 , 33, 5606-5617	9.6	5
498	Co _{0.5} TiOPO ₄ @C as new negative electrode for sodium ion batteries: Synthesis, characterization, and elucidation of the electrochemical mechanism using in operando synchrotron diffraction. <i>Journal of Power Sources</i> , 2021 , 498, 229924	8.9	0
497	Magnesium-Sulfur Batteries: Polyoxometalate Modified Separator for Performance Enhancement of Magnesium-Sulfur Batteries (Adv. Funct. Mater. 26/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170189	15.6	1
496	Investigation of Na _{2/3} Co _{2/3} Ti _{1/3} O ₂ as a multi-phase positive electrode material for sodium batteries. <i>Journal of Power Sources</i> , 2021 , 481, 229120	8.9	6
495	Phosphoric acid and thermal treatments reveal the peculiar role of surface oxygen anions in lithium and manganese-rich layered oxides. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 264-273	13	10
494	Low-Temperature Separating Lithium-Ion Battery Interfacial Polarization Based on Distribution of Relaxation Times (DRT) of Impedance. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 410-421	7.6	5
493	Electrochemical performance and reaction mechanism investigation of V ₂ O ₅ positive electrode material for aqueous rechargeable zinc batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16776-16786	13	4
492	The crystal growth and properties of novel magnetic double molybdate RbFe ₅ (MoO ₄) ₇ with mixed Fe ³⁺ /Fe ²⁺ states and 1D negative thermal expansion. <i>CrystEngComm</i> , 2021 , 23, 3297-3307	3.3	6
491	Garnet to hydrogarnet: effect of post synthesis treatment on cation substituted LLZO solid electrolyte and its effect on Li ion conductivity.. <i>RSC Advances</i> , 2021 , 11, 30283-30294	3.7	3
490	Kinetic Control of Long-Range Cationic Ordering in the Synthesis of Layered Ni-Rich Oxides. <i>Advanced Functional Materials</i> , 2021 , 31, 2009949	15.6	11
489	Quantifying Absolute Amounts of Electrolyte Components in Lithium-Ion Cells Using HPLC. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 080504	3.9	1
488	The effect of electrochemically inactive Ti substituted for Ru in Li ₂ Ru ₁ -Ti O ₃ on structure and electrochemical performance. <i>Journal of Energy Chemistry</i> , 2021 , 60, 222-228	12	0
487	Managing Life Span of High-Energy LiNi _{0.88} Co _{0.11} Al _{0.01} O ₂ C Bi Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9982-10002	6.1	3
486	Correlation between structural, electrical and electrochemical performance of Zn doped high voltage spinel LiNi _{0.5-x} Zn _x Mn _{1.5} O ₄ porous microspheres as a cathode material for Li-Ion batteries. <i>Ceramics International</i> , 2021 , 47, 35275-35275	5.1	0
485	In operando study of orthorhombic V ₂ O ₅ as positive electrode materials for K-ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 62, 627-636	12	3
484	Hybrid aqueous supercapacitors based on mesoporous spinel-analogous Zn-Ni-Co-O nanorods: Effect of Ni content on the structure and energy storage. <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160712	5.7	3

483	Multi-analyser detector (MAD) for high-resolution and high-energy powder X-ray diffraction. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 146-157	2.4	4
482	Origin of the catalytic activity at graphite electrodes in vanadium flow batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18280-18293	13	7
481	New Insights into Lithium Hopping and Ordering in LiNiO ₂ Cathodes during Li (De)intercalation. <i>Chemistry of Materials</i> , 2021 , 33, 9546-9559	9.6	5
480	Probing the Effect of Titanium Substitution on the Sodium Storage in Na ₃ Ni ₂ BiO ₆ Honeycomb-Type Structure. <i>Energies</i> , 2020 , 13, 6498	3.1	1
479	Solution Combustion-Mechanochemical Syntheses of Composites and Core-Shell xLi ₂ MnO ₃ [(1-x)LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ (0 ≤ x ≤ 0.7) Cathode Materials for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18590-18605	8.3	2
478	Chemical and Structural Evolution during the Synthesis of Layered Li(Ni,Co,Mn)O ₂ Oxides. <i>Chemistry of Materials</i> , 2020 , 32, 4984-4997	9.6	20
477	Fatigue in High-Energy Commercial Li Batteries while Cycling at Standard Conditions: An In Situ Neutron Powder Diffraction Study. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6611-6622	6.1	16
476	A new monoclinic structure type for ternary gallide MgCoGa. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020 , 76, 541-546	0.8	1
475	In Situ X-ray Diffraction and X-ray Absorption Spectroscopic Studies of a Lithium-Rich Layered Positive Electrode Material: Comparison of Composite and Core-Shell Structures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13852-13868	9.5	13
474	Choosing the right carbon additive is of vital importance for high-performance Sb-based Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6092-6104	13	18
473	Post mortem analysis of ageing mechanisms in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ [LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂] LiMn ₂ O ₄ /graphite lithium ion batteries. <i>Journal of Power Sources</i> , 2020 , 453, 227915	8.9	3
472	New maximally disordered [High entropy intermetallic phases (MD-HEIP) of the Gd _{1-x} La _x Sn _{2-y} Sb _y M _z (M=Li, Na, Mg): Synthesis, structure and some properties. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155643	5.7	2
471	Mechanochemical synthesis of amorphous and crystalline NaPS- elucidation of local structural changes by X-ray total scattering and NMR. <i>Dalton Transactions</i> , 2020 , 49, 1668-1673	4.3	3
470	Na ⁺ ion mobility in Na ₃ +Sc ₂ (SiO ₄) (PO ₄) ₃ [(0.1)]. <i>Solid State Ionics</i> , 2020 , 348, 115277	3.3	3
469	Understanding the Lifetime of Battery Cells Based on Solid-State LiPSCl Electrolyte Paired with Lithium Metal Electrode. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20012-20025	9.5	18
468	New ternary MgCo ₂ Ga ₅ and MgNi ₂ Ga ₅ gallides. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2020 , 235, 513-521	1	0
467	Thermally Induced Structural Reordering in Li- and Mn-Rich Layered Oxide Li Ion Cathode Materials. <i>Chemistry of Materials</i> , 2020 , 32, 1210-1223	9.6	10
466	Investigation of lithium-ion battery degradation mechanisms by combining differential voltage analysis and alternating current impedance. <i>Journal of Power Sources</i> , 2020 , 448, 227575	8.9	64

465	Interaction between Electrolytes and Sb ₂ O ₃ -Based Electrodes in Sodium Batteries: Uncovering the Detrimental Effects of Diglyme. <i>ChemElectroChem</i> , 2020 , 7, 3487-3495	4.3	3
464	Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. <i>Nature Communications</i> , 2020 , 11, 3490	17.4	50
463	Influence and Electrochemical Stability of Oxygen Groups and Edge Sites in Vanadium Redox Reactions. <i>ChemElectroChem</i> , 2020 , 7, 4745-4754	4.3	6
462	Evidence of discrete energy states and cluster-glass behavior in Sr _{2-x} La _x CoNbO ₆ . <i>Physical Review B</i> , 2020 , 102,	3.3	2
461	Lithium-ion (de)intercalation mechanism in core-shell layered Li(Ni,Co,Mn)O ₂ cathode materials. <i>Nano Energy</i> , 2020 , 78, 105231	17.1	21
460	New cubic cluster phases in the Mg-Ni-Ga system. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 534-542	1.8	1
459	Effect of sintering temperature on Li diffusivity in Li _{0.29} La _{0.57} TiO ₃ : Local hopping and long-range transport. <i>Solid State Ionics</i> , 2020 , 357, 115486	3.3	4
458	Synchrotron Studies of NH Preintercalated VO ₂ /HO Nanobelts as the Cathode Material for Aqueous Rechargeable Zinc Batteries. <i>ACS Nano</i> , 2020 , 14, 11809-11820	16.7	38
457	Synthesis and Characterization of a Multication Doped Mn Spinel, LiNiCuFeMnO, as 5 V Positive Electrode Material. <i>ACS Omega</i> , 2020 , 5, 22861-22873	3.9	7
456	New Li _{0.8} M _{0.1} Ti ₂ (PO ₄) ₃ (M=Co, Mg) Electrode Materials for Lithium-Ion Batteries: In Operando X-Ray Diffraction and Ex Situ X-ray Photoelectron Spectroscopy Investigations. <i>ChemElectroChem</i> , 2020 , 7, 3637-3645	4.3	1
455	Synthesis, Characterization, Electrochemistry, and In Situ X-ray Diffraction Investigation of Ni ₃ (PO ₄) ₂ as a Negative Electrode Material for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2020 , 7, 3866-3873	4.3	7
454	Structure and Diffusion Pathways in Li ₆ PS ₅ Cl Argyrodite from Neutron Diffraction, Pair-Distribution Function Analysis, and NMR. <i>Chemistry of Materials</i> , 2020 , 32, 8420-8430	9.6	9
453	Phase transformation, charge transfer, and ionic diffusion of Na ₄ MnV(PO ₄) ₃ in sodium-ion batteries: a combined first-principles and experimental study. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17477-17486	13	11
452	Understanding the mechanism of byproduct formation with in operando synchrotron techniques and its effects on the electrochemical performance of VO ₂ (B) nanoflakes in aqueous rechargeable zinc batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9567-9578	13	25
451	MnO ₂ and Reduced Graphene Oxide as Bifunctional Electrocatalysts for LiO ₂ Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7121-7131	6.1	13
450	Doped Nanoscale NMC333 as Cathode Materials for Li-Ion Batteries. <i>Materials</i> , 2019 , 12,	3.5	11
449	Difference in Electrochemical Mechanism of SnO Conversion in Lithium-Ion and Sodium-Ion Batteries: Combined in Operando and Ex Situ XAS Investigations. <i>ACS Omega</i> , 2019 , 4, 9731-9738	3.9	27
448	Oxygen Activity in Li-Rich Disordered Rock-Salt Oxide and the Influence of LiNbO ₃ Surface Modification on the Electrochemical Performance. <i>Chemistry of Materials</i> , 2019 , 31, 4330-4340	9.6	23

447	Synthesis and electrochemical properties of rGO/polypyrrole/ferrites nanocomposites obtained via a hydrothermal route for hybrid aqueous supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 845, 72-83	4.1	33
446	Chemical, Structural, and Electronic Aspects of Formation and Degradation Behavior on Different Length Scales of Ni-Rich NCM and Li-Rich HE-NCM Cathode Materials in Li-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1900985	24	152
445	Structural and magnetic properties of $Ce_{1-x}Sm_xFe_{11}TiV_y$. <i>Acta Materialia</i> , 2019 , 172, 131-138	8.4	10
444	Can Metallic Sodium Electrodes Affect the Electrochemistry of Sodium-Ion Batteries? Reactivity Issues and Perspectives. <i>ChemSusChem</i> , 2019 , 12, 3312-3319	8.3	35
443	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. <i>Applied Energy</i> , 2019 , 248, 149-161	10.7	33
442	Electrochemical Lithium Extraction and Insertion Process of Sol-Gel Synthesized $LiMnPO_4$ via Two-Phase Mechanism. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1257-A1265	3.9	8
441	Dielectric relaxation behavior induced by lithium migration in $Li_4Ti_5O_{12}$ spinel. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 678-685	5.7	17
440	$LiMgCuAl$: a new ordered quaternary superstructure to the icosahedral T-Mg(Zn,Al) phase with fullerene-like Al cluster. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 168-174	1.8	1
439	Amorphous versus Crystalline Li_3PS_4 : Local Structural Changes during Synthesis and Li Ion Mobility. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10280-10290	3.8	33
438	Power capability and cyclic aging of commercial, high power lithium ion battery cells with respect to different cell designs. <i>Journal of Power Sources</i> , 2019 , 425, 27-38	8.9	31
437	$Ni_0.5TiOPO_4$ phosphate: Sodium insertion mechanism and electrochemical performance in sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 418, 211-217	8.9	11
436	The quaternary system Sm-Fe-Mo-Al and the effect of Al substitution on magnetic and structural properties of its $ThMn_{12}$ phase. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 301-307	5.7	9
435	A Crosslinked Polyethyleneglycol Solid Electrolyte Dissolving Lithium Bis(trifluoromethylsulfonyl)imide for Rechargeable Lithium Batteries. <i>ChemSusChem</i> , 2019 , 12, 4708-4718	8.3	15
434	Electrochemical and Structural Investigation of Calcium Substituted Monoclinic $Li_3V_2(PO_4)_3$ Anode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1901864	21.8	11
433	Tuning the performance of vanadium redox flow batteries by modifying the structural defects of the carbon felt electrode. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1698-1706	3	14
432	Amorphous MoO-Type/Carbon Nanocomposite with Enhanced Electrochemical Capability for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2019 , 10,	5.4	3
431	Evidence of a Pseudo-Capacitive Behavior Combined with an Insertion/Extraction Reaction Upon Cycling of the Positive Electrode Material $P_2-Na_xCo_{0.9}Ti_{0.1}O_2$ for Sodium-ion Batteries. <i>ChemElectroChem</i> , 2019 , 6, 892-903	4.3	12
430	Electrolyte Stability and Discharge Products of an Ionic-Liquid-Based LiO_2 Battery Revealed by Soft X-Ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30827-30832	3.8	5

429	Structural insights into the formation and voltage degradation of lithium- and manganese-rich layered oxides. <i>Nature Communications</i> , 2019 , 10, 5365	17.4	79
428	Co9S8@carbon yolk-shell nanocages as a high performance direct conversion anode material for sodium ion batteries. <i>Energy Storage Materials</i> , 2019 , 18, 51-58	19.4	52
427	(De)Lithiation Mechanism of Hierarchically Layered LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathodes during High-Voltage Cycling. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5025-A5032	3.9	19
426	In Operando Synchrotron Diffraction and in Operando X-ray Absorption Spectroscopy Investigations of Orthorhombic VO Nanowires as Cathode Materials for Mg-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2305-2315	16.4	37
425	Powder diffraction in external electric and magnetic fields 2019 , 174-188		
424	Lithium/Oxygen Incorporation and Microstructural Evolution during Synthesis of Li-Rich Layered Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ Oxides. <i>Advanced Energy Materials</i> , 2019 , 9, 1803094	21.8	52
423	Observation of electrochemically active Fe/Fe in LiCoFeMnO by in situ Mössbauer spectroscopy and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 21, 89-95	3.6	8
422	Electrochemical performance of nanosized MnO ₂ synthesized by redox route using biological reducing agents. <i>Journal of Alloys and Compounds</i> , 2018 , 746, 227-237	5.7	16
421	High electrochemical performance of 3D highly porous Zn _{0.2} Ni _{0.8} Co ₂ O ₄ microspheres as an electrode material for electrochemical energy storage. <i>CrystEngComm</i> , 2018 , 20, 2159-2168	3.3	18
420	Surface analytical characterization of LiNi _{0.8-y} MnyCo _{0.2} O ₂ (0.1 ≤ y ≤ 0.4) compounds for lithium-ion battery electrodes. <i>Surface and Interface Analysis</i> , 2018 , 50, 1132-1137	1.5	13
419	Phase equilibria and crystal structure relationships in the ternary LiBC system. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 853-863	6.8	3
418	Fabrication and characterization of monodispersed Mn _{0.8} Ni _{0.2} Co ₂ O ₄ mesoporous microspheres for supercapacitor application. <i>Ceramics International</i> , 2018 , 44, 8864-8869	5.1	7
417	Moving to Aqueous Binder: A Valid Approach to Achieving High-Rate Capability and Long-Term Durability for Sodium-Ion Battery. <i>Advanced Science</i> , 2018 , 5, 1700768	13.6	55
416	HP-CaSiN ₂ [A New High-Pressure Modification. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 1107-1113	2.3	1
415	Neutron imaging with fission and thermal neutrons at NECTAR at MLZ. <i>Physica B: Condensed Matter</i> , 2018 , 551, 359-363	2.8	9
414	Anatase TiO ₂ nanoparticles for lithium-ion batteries. <i>Ionics</i> , 2018 , 24, 2925-2934	2.7	38
413	Green synthesis of nanosized manganese dioxide as positive electrode for lithium-ion batteries using lemon juice and citrus peel. <i>Electrochimica Acta</i> , 2018 , 262, 74-81	6.7	23
412	Electrochemical and structural investigations of different polymorphs of TiO ₂ in magnesium and hybrid lithium/magnesium batteries. <i>Electrochimica Acta</i> , 2018 , 277, 20-29	6.7	23

411	Thermal Structural Behavior of Electrodes in Li-Ion Battery Studied In Operando. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1975-A1982	3.9	10
410	Elucidating the energy storage mechanism of ZnMn ₂ O ₄ as promising anode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19381-19392	13	39
409	Energy research with neutrons (ErwiN) and installation of a fast neutron powder diffraction option at the MLZ, Germany. <i>Journal of Applied Crystallography</i> , 2018 , 51, 591-595	3.8	12
408	Electrostatic self-assembly of LiFePO ₄ cathodes on a three-dimensional substrate for lithium ion batteries. <i>Electrochimica Acta</i> , 2018 , 283, 1375-1383	6.7	6
407	Binding Energy Referencing for XPS in Alkali Metal-Based Battery Materials Research (II): Application to Complex Composite Electrodes. <i>Batteries</i> , 2018 , 4, 36	5.7	42
406	Activation and degradation of electrospun LiFePO ₄ battery cathodes. <i>Journal of Power Sources</i> , 2018 , 396, 386-394	8.9	14
405	Surfactant modified platinum based fuel cell cathode studied by X-ray absorption spectroscopy. <i>Journal of Catalysis</i> , 2018 , 364, 282-290	7.3	1
404	EDTA as chelating agent for sol-gel synthesis of spinel LiMn ₂ O ₄ cathode material for lithium batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 758-766	5.7	30
403	Electrochemical behavior of LiV ₃ O ₈ positive electrode in hybrid Li,Na bn batteries. <i>Journal of Power Sources</i> , 2018 , 373, 1-10	8.9	11
402	Surface analytical approaches to reliably characterize lithium ion battery electrodes. <i>Surface and Interface Analysis</i> , 2018 , 50, 43-51	1.5	34
401	Passive Hybrid Storage Systems: Influence of circuit and system design on performance and lifetime. <i>Energy Procedia</i> , 2018 , 155, 336-349	2.3	3
400	High-Resolution Surface Analysis on Aluminum Oxide-Coated LiMnNiCoO with Improved Capacity Retention. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43131-43143	9.5	26
399	Magnetic structure and spin correlations in magnetoelectric honeycomb Mn ₄ Ta ₂ O ₉ . <i>Physical Review B</i> , 2018 , 98,	3.3	11
398	Ionic conduction and dielectric properties of yttrium doped LiZr ₂ (PO ₄) ₃ obtained by a Pechini-type polymerizable complex route. <i>Ceramics International</i> , 2018 , 44, 15509-15516	5.1	10
397	Li ⁺ -Ion Dynamics in Li ₃ PS ₄ Observed by NMR: Local Hopping and Long-Range Transport. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15954-15965	3.8	55
396	Surface Functionalization of Silicon, HOPG, and Graphite Electrodes: Toward an Artificial Solid Electrolyte Interface. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24172-24180	9.5	14
395	NASICON-Type MgTi(PO) ₃ Negative Electrode Material Exhibits Different Electrochemical Energy Storage Mechanisms in Na-Ion and Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4709-4718	9.5	36
394	Stability of NASICON materials against water and CO ₂ uptake. <i>Solid State Ionics</i> , 2017 , 302, 102-106	3.3	25

393	Effect of fatigue/ageing on the lithium distribution in cylinder-type Li-ion batteries. <i>Journal of Power Sources</i> , 2017 , 348, 145-149	8.9	30
392	Investigation of nano-sized Cu(II)O as a high capacity conversion material for Li-metal cells and lithium-ion full cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6556-6568	13	12
391	Unravelling the growth mechanism of hierarchically structured Ni _{1/3} Co _{1/3} Mn _{1/3} (OH) ₂ and their application as precursors for high-power cathode materials. <i>Electrochimica Acta</i> , 2017 , 232, 123-131	6.7	37
390	Valence Electronic Structure of Li ₂ O ₂ , Li ₂ O, Li ₂ CO ₃ , and LiOH Probed by Soft X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5460-5466	3.8	11
389	Challenges Considering the Degradation of Cell Components in Commercial Lithium-Ion Cells: A Review and Evaluation of Present Systems. <i>Topics in Current Chemistry</i> , 2017 , 375, 54	7.2	15
388	Coordination of the Mn ⁴⁺ -Center in Layered Li[Co _{0.98} Mn _{0.02}]O ₂ Cathode Materials for Lithium-Ion Batteries. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	8
387	Composition-dependent charge transfer and phase separation in the VReO solid solution. <i>Dalton Transactions</i> , 2017 , 46, 1606-1617	4.3	2
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